## IN THE CLAIMS:

Claims 2-5, 11, 13-15, 20, 21, 23-25, and 30 have been previously cancelled, new claims 31-41 have been previously added, and claims 1, 6-10, 12, 16-19, 22, and 26-29 have been previously amended as follows:

1. (Currently Amended) A method for dissipating heat from a localized area within a semiconductor die, the method comprising:

providing a semiconductor die constructed and arranged to have include at least one conduit portion therein, at least a portion of the conduit portion being proximate to the localized area, the conduit portion being at least partially filled with a heat-dissipating material;

absorbing, by the conduit portion, heat from the localized area; and dissipating, by the conduit portion, at least a portion of the heat away from the localized area.

- 2. (Cancelled)
- 3. (Cancelled)
- 4. (Cancelled)
- 5. (Cancelled)
- 6. (Currently Amended) The method of claim 1, wherein the heat-dissipating material comprises a thermally conductive material having high conductivity.
- 7. (Currently Amended) The method of claim 6, wherein the dissipating includes spreading heat by the <u>thermally conductive</u> material <del>having high conductivity</del>.
- 8. (Currently Amended) The method of claim 6, wherein the <u>thermally conductive</u> material having high conductivity comprises copper.

20550359v1 3

- 9. (Currently Amended) The method of claim 6, wherein the <u>thermally conductive</u> material having high conductivity comprises silver.
- 10. (Currently Amended) The method of claim 1, wherein the localized area is proximate to a floating point mechanism unit in the die.
- 11. (Cancelled)
- 12. (Currently Amended) An arrangement for dissipating heat from a localized area within a A semiconductor die [[,]] comprising;

a semiconductor die having at least one conduit portion, at least a <u>first</u> portion of the conduit portion being proximate to [[the]] <u>a</u> localized area, and a second portion of the conduit having an end portion at a face of the <u>die</u>; and

a heat-dissipating material at least partially filling the conduit portion,
wherein the conduit portion is constructed and arranged to absorb heat from the localized
area and to dissipate at least a portion of the heat away from the localized area.

- 13. (Cancelled)
- 14. (Cancelled)
- 15. (Cancelled)
- 16. (Currently Amended) The arrangement semiconductor die of claim 12, wherein the conduit portion is substantially filled with the heat-dissipating material.
- 17. (Currently Amended) The arrangement semiconductor die of claim 16, wherein the heat-dissipating material comprises a thermally conductive material having high conductivity.
- 18. (Currently Amended) The arrangement semiconductor die of claim 17, wherein the thermally conductive material having high conductivity comprises copper.

- 19. (Currently Amended) The arrangement semiconductor die of claim 17, wherein the thermally conductive material having high conductivity comprises silver.
- 20. (Cancelled)
- 21. (Cancelled)
- 22. (Currently Amended) The arrangement semiconductor die of claim 12, wherein the conduit portion is cylindrical.
- 23. (Cancelled)
- 24. (Cancelled)
- 25. (Cancelled)
- 26. (Currently Amended) The arrangement semiconductor die of claim 12, wherein the conduit portion [[has]] includes a hole therein.
- 27. (Currently Amended) The arrangement semiconductor die of claim 12, wherein the conduit portion [[has]] includes a channel therein.
- 28. (Currently Amended) The arrangement semiconductor die of claim 12, wherein the conduit portion [[has]] includes a via therein.
- 29. (Currently Amended) The arrangement semiconductor die of claim 12, wherein the conduit portion [[has]] includes a slot therein.
- 30. (Cancelled)
- (New) A semiconductor die comprising;
   a microprocessor circuit;

at least one conduit, a first portion of the conduit being proximate to the microprocessor circuit, and a second portion of the conduit having an end portion at a face of the die; and

20550359v1 5

a heat-dissipating material at least partially filling the conduit, wherein the conduit is constructed and arranged to absorb heat from the microprocessor circuit and to dissipate at least a portion of the heat away from the microprocessor circuit.

- 32. (New) The semiconductor die of claim 31, wherein the conduit is substantially filled with the heat-dissipating material.
- 33. (New) The semiconductor die of claim 32, wherein the heat-dissipating material comprises a thermally conductive material.
- 34. (New) The semiconductor die of claim 33, wherein the thermally conductive material comprises copper.
- 35. (New) The semiconductor die of claim 33, wherein the thermally conductive material comprises silver.
- 36. (New) The semiconductor die of claim 31, wherein the conduit is cylindrical.
- 37. (New) The semiconductor die of claim 31, wherein the conduit includes a hole.
- 38. (New) The semiconductor die of claim 31, wherein the conduit includes a channel.
- 39. (New) The semiconductor die of claim 31, wherein the conduit includes a via.
- 40. (New) The semiconductor die of claim 31, wherein the conduit includes a slot.
- 41. (New) The semiconductor die of claim 31, the first portion of the conduit being proximate to a floating point unit in the microprocessor circuit.

20550359v1 6